

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1061	(264/450,29.5,29.6,29.7).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/14 09:09
L2	7	"6699427"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/14 09:38
L3	3	"5523035"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/14 09:45
L4	6	"4252513"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/14 09:46
L5	15	"4166145"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/14 09:57
L6	1	10/720841	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/14 09:57
S1	10	("3842029" "4523666" "4786347" "5143184" "5454990" "5830309" "5965658" "6042935" "6086814").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 09:57
S2	16	("20020056946" "20030008067" "4320079" "4444894" "4814127" "5126087" "5304424" "5336522" "5628938" "5707471" "5744075" "5762863" "5853653" "5863846" "6051167" "6277440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 09:57
S3	23	("2160924" "2502418" "2698256" "2912341" "2997402" "3078173" "4126474" "4430121" "4622070" "4690867" "4762811" "4897294" "4992395" "5039634" "6008152" "6066289" "6548436").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 09:57
S4	49	S1 S2 S3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 10:33
S5	32	("1323685" "4457967" "4544412" "4722817" "5007508" "5009823" "5202293" "5246638" "5256448" "5298311" "5306678" "5376595" "5377792" "5439080" "5525558" "5556704" "5609707" "5744075" "5804116" "5820788" "5876850" "5882570" "5979615" "5989504" "5993905" "6030913" "6051167" "6093482" "6132877" "6148785" "6183583").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 10:34

## EAST Search History

S6	7	"1323685"	EPO; DERWENT	OR	OFF	2006/01/30 10:34
S7	7	("5246638").URPN.	USPAT	OR	OFF	2006/01/30 13:04
S8	44	("4166145"   "4457967"   "4544412"   "4617165"   "4722817"   "4775705"   "4874564"   "4902453"   "5007508"   "5009823"   "5202293"   "5246638"   "5256448"   "5298311"   "5306678"   "5376595"   "5377792"   "5439080"   "5525558"   "5556704"   "5609707"   "5686117"   "5744075"   "5804116"   "5807518"   "5820788"   "5876850"   "5882570"   "5962135"   "5979615"   "5989504"   "5993905"   "6030913"   "6051167"   "6062351"   "6077607"   "6093482"   "6129868"   "6132877"   "6148785"   "6183583"   "6231791"   "6325608"   "6699427").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 10:56
S9	14	S8 not S5	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 10:56
S10	7	("5246638").URPN.	USPAT	OR	OFF	2006/01/30 13:05
S11	3	S10 and (current voltage)	USPAT	OR	OFF	2006/01/30 13:06
S12	3	"6878331"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/01/30 13:06
S13	5	("5382405").URPN.	USPAT	OR	OFF	2006/01/30 13:07
S14	15	("3726643"   "4161152"   "4431448"   "4446242"   "4459363"   "4560409"   "4732556"   "4853178"   "4933140"   "4946643"   "5198188"   "5246638"   "5256368"   "5294382").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 13:18
S15	34	(spark near3 sinter\$4 electroconsolidat\$9 field near3 activat\$6) and carbon with (fiber\$2 fibre\$2) same composite\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 13:32
S16	88	pitch and (PAN poly adj acrylonitrile polyacrylonitrile) and hot adj press\$4 and (direct adj current voltage)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 13:34
S17	58	pitch and (poly adj acrylonitrile polyacrylonitrile) and hot adj press\$4 and (direct adj current voltage)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 13:47

## EAST Search History

S18	4	("2509652" "3728423" "3914395").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 13:48
S19	6	("2509652").URPN.	USPAT	OR	OFF	2006/01/30 13:49
S20	5	("4252513").URPN.	USPAT	OR	OFF	2006/01/30 13:53
S21	10	("2416427"   "2509652"   "2681769"   "3239403"   "3795473"   "3905735").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 13:57
S22	37	("3239403").URPN.	USPAT	OR	OFF	2006/01/30 13:59
S23	3	("2416427").URPN.	USPAT	OR	OFF	2006/01/30 14:07
S24	7	("4193956").URPN.	USPAT	OR	OFF	2006/01/30 14:08
S25	1	("4783288").URPN.	USPAT	OR	OFF	2006/01/30 14:11
S26	15	("2439966"   "3254143"   "3268633"   "3284372"   "3733385"   "4065519"   "4193956"   "4491553"   "4518552"   "4518704").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 15:14
S27	64	pitch and (polyacrylonitrile poly adj acrylonitrile) and (silicon adj carbide SiC) same carbon near5 (fibre\$2 fiber\$2) and hot adj press\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 15:16
S28	10	("5045356").URPN.	USPAT	OR	OFF	2006/01/30 15:24
S29	11	("5294460").URPN.	USPAT	OR	OFF	2006/01/30 15:44
S30	1077	pitch near4 powder\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 15:44
S31	886	pitch near3 powder\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 15:44
S32	63	S31 and carbon adj (fiber\$2 fibre\$2) and brake\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 15:48
S33	32	S31 and carbon adj (fiber\$2 fibre\$2) and brake\$2 and hot adj press\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 16:33
S34	14	carbon adj (fiber\$2 fibre\$2) and brake\$2 and hot adj press\$4 and (silica silicon adj dioxide) with carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 16:36
S35	2	carbon adj (fiber\$2 fibre\$2) and brake\$2 and hot adj press\$4 and (silica silicon adj dioxide) same (form forming forms) with carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 16:37
S36	49	carbon adj (fiber\$2 fibre\$2) and brake\$2 and hot adj press\$4 and (silica silicon adj dioxide)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 16:43

## EAST Search History

S37	29	carbon adj (fiber\$2 fibre\$2) and brake\$2 and hot adj press\$4 and (silica silicon adj dioxide) and silicon adj carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 16:44
S38	9	carbon adj (fiber\$2 fibre\$2) and brake\$2 and (silica silicon adj dioxide) same (converted converting conversion) same silicon adj carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 16:46
S39	43	carbon adj (fiber\$2 fibre\$2) and (silica silicon adj dioxide) same (converted converting conversion) same silicon adj carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 17:10
S40	142	carbon adj (fiber\$2 fibre\$2) and (silica silicon adj dioxide) same (polysiloxane\$2 polysilazane\$2 polycarbosilazane\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 16:52
S41	7	carbon adj (fiber\$2 fibre\$2) and (silica silicon adj dioxide) same (polysiloxane\$2 polysilazane\$2 polycarbosilazane\$2) same silicon adj carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 17:07
S42	6	("5980813" "5635250" "4026344" "4823734" "5490882" "5312649").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 17:07
S43	1333	pitch and (silica silicon adj dioxide) same silicon adj carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 17:10
S44	67	pitch and (silica silicon adj dioxide) same (converted converting conversion) same silicon adj carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 17:18
S45	170149	pitch and (silica silicon adj dioxide) same carboniz\$9 same silicon carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 17:19
S46	50	pitch and (silica silicon adj dioxide) same carboniz\$9 same silicon adj carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 17:26
S47	18	("3085863"   "3175884"   "3319785"   "3379647"   "3754076"   "4248844"   "4283375"   "4295890"   "4500504"   "4504453"   "4606902"   "4637924"   "4690811").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 17:23
S48	1333	pitch and (silica silicon adj dioxide) same silicon adj carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 17:26

## EAST Search History

S49	175	pitch same (silica silicon adj dioxide) same silicon adj carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 18:17
S50	7	("3329514").URPN.	USPAT	OR	OFF	2006/01/30 17:47
S51	1333	pitch and (silica silicon adj dioxide) same silicon adj carbide\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 18:17
S52	235	pitch and (silica silicon adj dioxide) same silicon adj carbide\$2 and carboniz\$9	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 18:17
S53	32	pitch and (silica silicon adj dioxide) same silicon adj carbide\$2 and carboniz\$9 and brake\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 19:00
S54	1	10/720841	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/30 19:01
S55	153	brake\$2 and (silica silicon adj dioxide) and carbon adj (fiber\$2 fibre\$2) same composite\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 11:14
S56	0	brake\$2 and in adj situ same silicon adj carbide	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 11:14
S57	0	brake\$2 and "in situ" same silicon adj carbide	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 11:14
S58	12	brake\$2 and "in situ" and silicon adj carbide	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 11:16
S59	6	carbon adj (fiber\$2 fibre\$2) and "in situ" same silicon adj carbide	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 11:16
S60	16	("20020056946" "20030008067" "43 20079" "4444894" "4814127" "5126 087" "5304424" "5336522" "562893 8" "5707471" "5744075" "5762863"  "5853653" "5863846" "6051167" "6 277440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 11:22
S61	5	("4444894").URPN.	USPAT	OR	OFF	2006/01/31 11:39
S62	6	"4444894"	USPAT	OR	OFF	2006/01/31 12:21
S63	6	"4252513"	USPAT	OR	OFF	2006/01/31 13:20
S64	6	"5037626"	USPAT	OR	OFF	2006/01/31 13:33
S65	15	"4166145"	USPAT	OR	OFF	2006/01/31 14:02
S66	6	"5525558"	USPAT	OR	OFF	2006/01/31 14:02

## EAST Search History

S67	39	(reimpregnat\$6 re adj impregnat\$6) and carbon adj (fiber\$2 fibre\$2) and composite\$2 and density same (gram\$2 "g/cm.sup.3")	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 14:51
S68	0	pitch with powder\$3 and polycrylonitrile	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 14:51
S69	280	pitch with powder\$3 and polyacrylonitrile	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 14:52
S70	152	pitch near3 powder\$3 and polyacrylonitrile	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 15:01
S71	71	pitch near3 powder\$3 and polyacrylonitrile same carbon near4 (fiber\$2 fibre\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 15:02
S72	52	pitch near3 powder\$3 and polyacrylonitrile same carbon near4 (fiber\$2 fibre\$2) and composite\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 17:21
S73	15	"4166145"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 17:49
S74	1	10/720841	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 17:50
S75	1874	(264/450,29.1,101).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 17:52
S76	958	(264/450,29.1).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 17:52
S77	476	(264/450,29.5).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 17:52
S78	1265	(264/450,29.5,29.1).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 17:53
S79	796	(264/450,29.5,29.6).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 17:53
S80	1041	(264/450,29.5,29.6,29.7).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 17:53
S81	10	("2938807"   "3947550"   "4940679"   "5024795"   "5667742"   "5865922"   "5945166"   "6013226"   "6051096").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 19:39

## EAST Search History

S82	3	"6699427"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 20:19
S83	1	"6803108"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 20:23
S84	4	"5688155"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 20:24
S85	1	"5550176"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 20:24
S86	7	"1323685"	EPO; DERWENT	OR	OFF	2006/02/01 07:43
S87	6	"4252513"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:09
S88	4817	pitch with insulat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:42
S89	839	pitch near3 (insulat\$4 non adj conductive)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:36
S90	85	pitch with conductive and (hot adj press hot adj pressing hot adj pressed)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:37
S91	10	("2416427"   "2509652"   "2681769"   "3239403"   "3795473"   "3905735").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:39
S92	4238	pitch and friction and (pressed pressing press) and conductiv\$5	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:43
S93	1033	pitch and friction and (pressed pressing press) same conductiv\$5	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:48
S94	73	pitch and goldberger	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:43
S95	277	(goldberger).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:45
S96	6	("5382405").URPN.	USPAT	OR	OFF	2006/10/13 14:47
S97	3	("5348694").URPN.	USPAT	OR	OFF	2006/10/13 14:47
S98	6	("4041123"   "4539175"   "4547430"   "4640711"   "4853178"   "4933140").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:47

## EAST Search History

S99	1597	pitch and friction and (pressed pressing press) and conductiv\$5 and electrode\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:58
S100	2696	pitch and friction and (pressed pressing press) and conductiv\$5 and current	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:58
S101	2214	pitch and friction and (pressed pressing press) and conductiv\$5 and voltage	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:58
S102	293	pitch and friction and (brake\$2) and (pressed pressing press) and conductiv\$5 and voltage	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 14:59
S103	277	pitch and friction same brake\$2 and (pressed pressing press) and conductiv\$5	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:02
S104	10	("4278584").URPN.	USPAT	OR	OFF	2006/10/13 15:01
S105	185	pitch and friction same brake\$2 and (pressed pressing press) and carbon near4 carbon	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:02



## EAST Search History

S10 6	126	("2509652" "2862795" "3170966" "3239403" "3254143" "3284372" "3310387" "3330703" "3442989" "3565980" "3836356" "3932568" "3936535" "4017433" "4067955" "4166145" "4243460" "4252513" "4283375" "4297307" "4313869" "4320079" "4348343" "4382113" "4395299" "4395460" "4409048" "4444894" "4457967" "4544412" "4579704" "4597923" "4604249" "4613522" "4617165" "4722817" "4742948" "4770835" "4775705" "4783288" "4839150" "4874564" "4948762" "4948573" "4994506" "5009823" "5011799" "5037626" "5045356" "5057254" "5070049" "5071600" "5077130" "5093156" "5167881" "5169572" "5215690" "5246638" "5256448" "5279777" "5294460" "5298311" "5306678" "5336522" "5344854" "5380511" "5382405" "5439080" "5468318" "5468358" "5525558" "5545687" "5556704" "5589129" "5609707" "5628938" "5651950" "5686117" "5698143" "5707471" "5707567" "5720910" "5744075" "5762863" "5820788" "5830309" "5853653" "5863846" "5882570" "5962135" "5965658" "5979615" "5989504" "5993905" "6013226" "6030913" "6042935" "6051167" "6086814" "6093482" "6146559" "6171696" "6183583" "6277440" "6325608" "20020056946" "6555031" "6576076" "1323685" "6674042" "20040017019" "20040029706" "6699427" "6764620" "6878331"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:07
S10 7	58	S106 and pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:08

## EAST Search History

S10 8	33	("2509652"   "3001237"   "3728423"   "3914395"   "4457967"   "4544412"   "4722817"   "5007508"   "5009823"   "5202293"   "5256448"   "5294382"   "5298311"   "5306678"   "5439080"   "5476679"   "5525558"   "5556704"   "5609707"   "5744075"   "5979615"   "5989504"   "5993905"   "6030913"   "6051167"   "6093482"   "6132877"   "6148785"   "6183583"   "6248269"   "6376431").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:24
S10 9	253	pitch near4 conductivity	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:25
S11 0	1241	pitch near4 insulat\$7	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:26
S11 1	20	tar with pitch near4 insulat\$7	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:34
S11 2	78	tar with pitch and phenolic and friction and brake\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:34
S11 3	87	thermoplastic with friction with additive\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:38
S11 4	9	thermoplastic near5 friction near5 additive\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:39
S11 5	33	thermoplastic near5 friction same additive\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:41
S11 6	203	(polysiloxane\$2 siloxane\$2) and brake\$2 and thermoplastic\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:41
S11 7	19	(polysiloxane\$2 siloxane\$2) same thermoplastic\$2 and brake\$2 and friction	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:49
S11 8	37	(polysiloxane\$2 siloxane\$2) and pitch and brake and friction	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:53
S11 9	2	(polysiloxane\$2 siloxane\$2) same pitch and brake	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:54
S12 0	191	(polysiloxane\$2 siloxane\$2) same pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:57

## EAST Search History

S12 1	14	(polysiloxane\$2 siloxane\$2) same pitch and friction	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:54
S12 2	3	polypropylene same pitch and brake\$2 and (hot adj press hot adj pressed hot adj pressing)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:58
S12 3	38	thermoplastic\$2 same pitch and brake\$2 and (hot adj press hot adj pressed hot adj pressing)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:58
S12 4	31	("3639197"   "3692150"   "3759353"   "3956548"   "3966029"   "4119179"   "4297307"   "4457967"   "4742948"   "4804071"   "4849200"   "4996037"   "5007508"   "5093156"   "5143184"   "5238672"   "5242746"   "5316654"   "5377792"   "5398784"   "5399378"   "5433937"   "5503254"   "5523035"   "5587203"   "5609707"   "5614134"   "5614164"   "5643663"   "5654059"   "5705008").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 16:15
S12 5	434	pitch with (matrix matrices) and pitch with fiber\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 16:16
S12 6	101	pitch with (matrix matrices) and pitch with fiber\$2 and (hot adj press hot adj pressing hot adj pressed)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 16:16